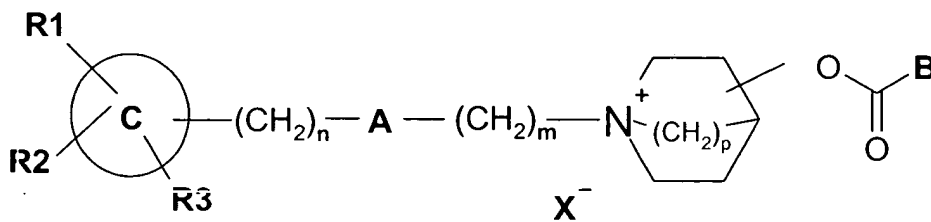


ABSTRACT
NOVEL QUINUCLIDINE DERIVATIVES AND MEDICINAL COMPOSITIONS
CONTAINING THE SAME

A compound according to formula (I)

(I)



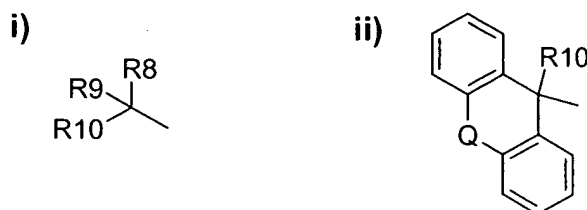
wherein:

- ③ is a phenyl ring, a C₄ to C₉ heteroaromatic compound containing one or more heteroatoms, or a naphthalenyl, 5,6,7,8-tetrahydronaphthalenyl or biphenyl group;
- R¹, R² and R³ each independently represent a hydrogen or halogen atom, or a hydroxy group, or a phenyl, -OR⁴, -SR⁴, -NR⁴R⁵, -NHCOR⁴, -CONR⁴R⁵, -CN, -NO₂, -COOR⁴ or -CF₃ group, or a straight or branched lower alkyl group which may optionally be substituted, for example, with a hydroxy or alkoxy group, wherein R⁴ and R⁵ each independently represent a hydrogen atom, straight or branched lower alkyl group, or together form an alicyclic ring; or R¹ and R² together form an aromatic, alicyclic or heterocyclic ring;
- n is an integer from 0 to 4;
- A represents a -CH₂-, -CH=CR⁶, -CR⁶=CH-, -CR⁶R⁷-, -CO-, -O-, -S-, -S(O)-, SO₂ or -NR⁶- group, wherein R⁶ and R⁷ each independently represent a hydrogen atom, straight or branched lower alkyl group, or R⁶ and R⁷ together form an alicyclic ring;
- m is an integer from 0 to 8; provided that when m = 0, A is not -CH₂-;

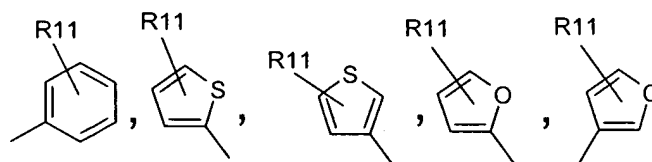
p is an integer from 1 to 2 and the substitution in the azoniabicyclic ring may be in the 2,3 or 4 position including all possible configurations of the asymmetric carbons;

B represents a group of formula i) or ii):

5



wherein R^{10} represents a hydrogen atom, a hydroxy or methyl group; and R^8 and R^9 each independently represents



wherein R^{11} represents a hydrogen or halogen atom, or a straight or branched lower alkyl group and Q represents a single bond, -CH₂-, -CH₂-CH₂-, -O-, -O-CH₂-, -S-, -S-CH₂- or -CH=CH-, and when i) or ii) contain a chiral centre they may represent either configuration;

X represents a pharmaceutically acceptable anion of a mono or polyvalent acid,

15 which shows high affinity for muscarinic M₃ receptors (Hm3).